

PATENT  
Serial No. 10/521,854  
Amendment in Reply to Office Action of January 18, 2007

REMARKS

This Amendment is being filed in response to the Office Action mailed January 18, 2007 which has been reviewed and carefully considered. Reconsideration and allowance of the present application in view of the amendments made above and the remarks to follow are respectfully requested.

By means of the present amendment, the current Abstract has been deleted and substituted with the enclosed New Abstract which better conforms to U.S. practice.

By means of the present amendment, claims 1-5 have been amended for better conformance to U.S. practice, such as beginning the dependent claims with 'The' instead of 'A', changing "characterized in that" to --wherein--, and deleting reference numerals typically used in European practice that are known to not limit the scope of the claims. Claims 1-5 were not amended in order to address issues of patentability and Applicants respectfully reserve all rights under the Doctrine of Equivalents.

In the Office Action, claims 1-3 are rejected under 35 U.S.C. §102(b) as allegedly anticipated by U.S. Patent No. 5,245,307 (Klaus). Further, claims 4-5 are rejected under 35 U.S.C. §103(a)

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as allegedly unpatentable over Klaus. It is respectfully submitted that claims 1-16 are patentable over Klaus for at least the following reasons.

Klaus is directed to a search coil assembly where coil 32, shown in FIG 1, has two partial coils that begin at a first terminal 42 and end at a second terminal 46, passing through a central tap 44. The terminals 42, 44, 46 are located within the Klaus coil 32. Thus, any leads connected to terminals 42, 44, 46 will be located within the Klaus coil 32.

In other embodiments, such as shown in FIGs 2A, 2B, two partial coils 58, 60 (of a coil 50) are not located on a single plane. Rather, the two partial coils 58, 60 are located on opposite sides of a printed-circuit board (PCB) 51, where the dotted lines in FIG 2A (showing the partial coil 60) are located on the bottom surface of the PCB 51. Terminals 54, 56 are located within the Klaus coil 50.

In stark contrast, the present invention as recited in independent claim 1, and similarly recited in independent claim 9, amongst other patentable elements requires (illustrative emphasis provided):

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power supply lines extending from opposite sides  
of the second loop.

Power supply lines that extending from opposite sides of a loop is nowhere taught or suggested in Klaus. Accordingly, it is respectfully submitted that independent claims 1 and 9 should be allowable, and allowance thereof is respectfully requested. In addition, it is respectfully submitted that claims 2-8 and 10-16 should also be allowed at least based on their dependence from amended independent claims 1 and 9.

Claims 4, 6-7, 10-11 also include patentable features since Klaus does not teach or suggest one loop being smaller than the other loop to compensate the magnetic field of the supply, or configuring the loops and power supply lines to reduce the magnetic field outside the loops.

In addition, Applicants deny any statement, position or averment of the Examiner that is not specifically addressed by the foregoing argument and response. Any rejections and/or points of argument not addressed would appear to be moot in view of the presented remarks. However, the Applicants reserve the right to submit further arguments in support of the above stated position, should that become necessary. No arguments are waived and none of

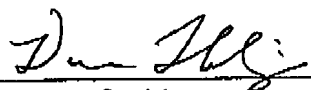
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the Examiner's statements are conceded.

It is believed that no additional fees or charges are currently due. However, in the event that any additional fees or charges are required for entrance of the accompanying amendment, they may be charged to applicants' representatives Deposit Account No. 50-3649. In addition, please credit any overpayments related to any fees paid in connection with the accompanying amendment to Deposit Account No. 50-3649.

In view of the above, it is respectfully submitted that the present application is in condition for allowance, and a Notice of Allowance is earnestly solicited.

Respectfully submitted,

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Enclosure: New Abstract

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